

ANCHORAGE AMATEUR RADIO CLUB

PRESIDENT- LANCE DUNBAR-AL7BK-337-6297

CLUB PHONE:345-0719

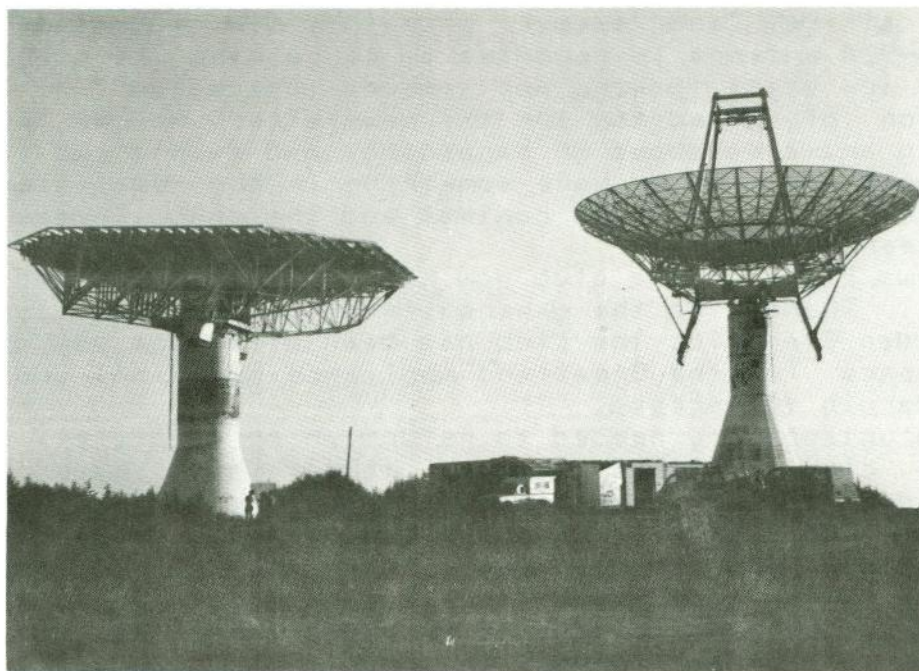
OCT. 1985

«EVENTS»



- | | |
|------------|---|
| October 4 | General Meeting 7:00 p.m.
Lucy Cuddy Center - ACC |
| October 9 | Board Meeting 7:00 p.m. Bering St. |
| Oct.19, 20 | S. E. T. Meeting |
| October 24 | V. E. C. Testing Gladys Wood School
(Call Roger or Lance for confirmation) |
| October 26 | P.A.R.K.A. Meeting |

E.T. PHONE HOME



NO, IT'S NOT E.T.'S SPACESHIP. IT'S A BIG 60' DISH, STEVE TOLLEY WAS GIVEN! HE'S MOVING IT FROM HOMER, AK. TO THE MAT VALLEY, FOR AMATEUR RADIO USE! GREAT IDEA, STEVE!

EDITOR: BONNIE JENNINGS-NL7DF 243-1146
8035 LLOYD DR
ANCHORAGE, ALASKA 99502



THE PREZ SEZ

Whew!!! The Flea Market is over for this year, and appears to have been a success. Preliminary figures show that we made a profit!! Somewhere between 4 and 5 grand.

The 14th Annual Flea Market was successful because of the efforts expended by those dedicated individuals who accepted the responsibilities of the tasks for which they volunteered, and then went ahead and did what had to be done. Thank you all, and especially Lil Marvin, NL7DL, who chaired the whole thing, and Rick Marvin, KL7YF, for assisting and supporting Lil. A complete report will be made as soon as all the figures have been tabulated.

During the Flea Market, the Club received a very generous donation of a "cherry" Heathkit HW-8 transceiver and VFO which will be made available for use by Club members.

The Flea Market banquet was held on Saturday night, with all ticketholders converging on the Hofbrau restaurant for before-dinner cocktails and eyeball QSO's. The food was outstanding, the atmosphere relaxing, and the entertainment provided by Tim Pettis on his "squeeze box" very enjoyable. Mary Lewis W7QGP, ARRL Northwest Division Director, was the guest speaker. The door prize, an Icom 2AT was won by Tim Pettis, KL7WE. The banquet was well worth the \$17 price. We have already booked the Hofbrau for next year's banquet.

The 147.90/30 repeater has had its PA board replaced, thanks to Doug Dickinson, KL7IKX, and others, who braved the rotten weather at Site Summit. Reports have been received that it can now be heard where it never has been before, and even pegs the meter at Del and Rosemary Hanrath's QTH at Montana Creek. The new DB-224 antenna is reported to be holding its own, also.

We are still looking for someone interested in taking the position of HF editor for the newsletter. Anyone interested in writing articles about HF happenings and events can contact me. It would be nice to have something in the newsletter about the upcoming CQ Worldwide DX contest and the ARRL Sweepstakes. Any volunteers??

News Flash!!! The club now has a "semi-permanent" storage locker. Thanks to the generosity of Chuck Igou, vice president of Hayden Electric, the club has been given the use of some of the space in the Greatland Appliance building. Contact Lil or Rick Marvin for access.

Volunteers are needed to refurbish or completely remake most of the club's display signs, etc., which have been water damaged. If you have the time and are somewhat artistically inclined, or just willing to help, give me a call.

Another News Flash!!! Daniel Stevens, KL7WM, reports that the Field Day trophy has finally been presented to the KL6 club in Juneau. We hope to have it on video tape for showing at a meeting in the near future.

General club meetings for the winter months will be held at the Lucy Cuddy Center on the ACC campus.

I think that's enough chatter from me for this month. See you at the October meeting on the 4th.

73,
Lance

ANCHORAGE AMATEUR RADIO CLUB, INC.
Minutes of general club meeting, September 6, 1985
Lucy Cuddy Center, Anchorage Community College Campus

The meeting was called to order at 7:16 pm AKDT by President Lance Dunbar AL7BK. Introductions were held; there were 54 people present.

Lance opened the meeting with a little information on the DX status of the **Pribilof Islands**. The ARRL Board of Directors had tabled further action on the proposal in their recent summer meeting; however, we understand that (hopefully) final action will be taken on the issue in January.

ARRL Section Manager David Stevens KL7EB presented Douglas Dickinson KL7IKX with an ARRL **Official Observer** appointment certificate.

Bob McKinnie spoke on the **ACC Arts Fair**. Bob said that it appeared there would be plenty of help; however, he was in need of another 2-meter base station for our operations.

J. D. Delancy K1ZAT/NL7 gave the September rendition of the **AARC Membership Rpeort**. J. D.'s records show that we currently have 369 club members, 142 of which are Life Members. Of these 369 club members, 245 also belong to the ARRL. 38 of the ARRL members are "League Lifers." 66.4% of our club members are members of the American Radio Relay League.

Lance mentioned that the club was in need of 2 or 3 **more control operators for the 34/94 repeater**. Bill Reiter KL7ITI, the Club Trustee, informed us that he recently had been contacted by a sufficient number of volunteers, so it appears we have overcome this crisis.

Past President Daniel Stevens KL7WM told us that the **plaque for the Juneau ARC** will be presented to that august organization shortly by ARRL Division Director Mary Lewis W7QGP. Daniel explained that the plaque is a rather ornate token of our esteem for our brothers and sisters to the south, due in large part to the essays and creativity of one each Bill Balzarini KL7BB.

Lil Marvin NL7DL captivated the audience with everyone's favorite subject -- **Flea Market 1985**. This year's extravaganza will be held at what used to be Greatland Appliance, 4109 Old Seward Highway. Lil went over the working positions that had been filled, and those that were still vacant. Club members were asked to bring either popcorn or baked goods to the Flea Market. Lance entreated all of us to hit our employers up for class door prizes.

Wilse G. "The Living Legend" Morgan KL7CQ offered his **comments** on this year's Flea Market. It is obvious that a lot of hard work has already been devoted to making our annual major event a success, but we mustn't slack off in this final week of preparation. By "paying attention to details," we can once again pull off a spectacular Flea Market, and march on to glorious victory! I couldn't have said it better myself!

Art Taylor KL7SK is the **Flea Market Raffle Chairperson**, and he mentioned that as of the date of the September club meeting, we had only received enough money from ticket sales to pay for the first prize. So we were all encouraged to pull out the stops and get the tickets sold.

The **Flea Market Banquet** will be at the Haufbrau in the Penney's Mall the Saturday evening of Flea Market Weekend (September 14). Tickets are \$17 per, and Mary Laws NL7DM worked feverishly through the meeting to sell same.

Fred Kletka KL7SE is the **Flea Market Booth Chairperson** and offered up a few words on the subject.

Roger Hansen KL7HFQ mentioned that **Amateur Radio examinations** will be given by a Volunteer Examiner Team at the Flea Market. Exams will begin each day at 11:00 am AKDT.

Douglas Dickinson KL7IKX presented the **VHF Committee report for September**. He has received the crystals for the new 34/94 transmitter, and mentioned that AL7AW should soon have the new amplifier for 90/30. Doug added that the 146.34/94 Tok repeater is back on the air, but is suffering from receiver problems. In the interim, legal 2-meter simplex is alive and well in the Tok area, with much activity on 146.52 direct.

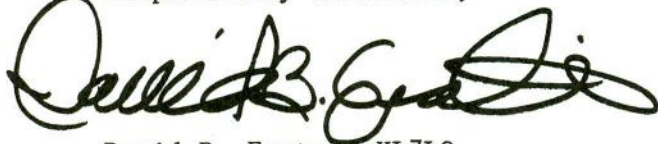
The ~~fixes~~ door prizes were distributed to many needy hams.

Jerry Smith of the **American Red Cross** told us that he will conduct an Introduction to Red Cross Services course on Tuesday, September 17, at the Red Cross building at 3rd and Cordova, starting at 7:00 pm AKDT. The week of September 23rd, the Red Cross will be presenting many training classes at Elmendorf AFB. All interested were invited to attend. Jerry still wants to develop that crackerjack cadre of Red Cross-trained radio amateurs.

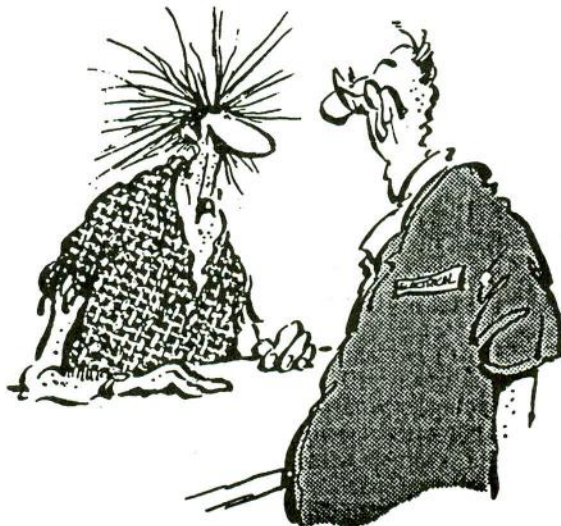
Beth Head NL7FZ picked up the **Advanced Class class ball** for the ailing NL7FY and told us that a gang of students were still needed in order to justify holding the course. Contact her or Linda for further information.

There being no further business or arguments, the meeting was adjourned at 8:50 pm AKDT.

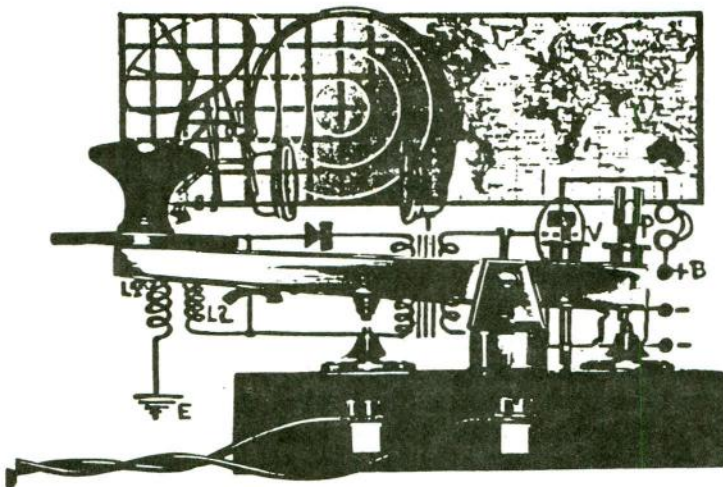
Respectfully submitted,



David B. Epstein KL7LO
Secretary



"Got any 25-amp fuses?"



75th Anniversary of Amateur Radio: The Wireless Institute of Australia



Fredrick T Soliver

5300 East 98th Drive.

Sra. Box 76-T

Chenage Alaska. 9951.

Sender's name and address

MR BLOOMFIELD
RSD STRATHFIELD SA
VIC. 3551

Bonnie,
I received this commemorative envelope
from VK3DOV, QSL Manager for the Midlands
Amateur Radio Group in Victoria. I think
that it would be appropriate to share it
with the AARC in the newsletter.

73,

FRED

KL7HM



75th Anniversary of Amateur Radio: The Wireless Institute of Australia
Guglielmo Marconi sent a wireless signal across the English Channel in 1899 and the world advanced into the age of radio. Amateur experimenters showed an immediate interest in the new medium and soon clubs and associations began forming as enthusiasts banded together. Dozens of clubs emerged in Australia. By 1910 the Postmaster-General's Department was advocating the formation of a body to represent the interests of amateur radio groups in this country. The ensuing Wireless Institute of Australia is now claimed to be the oldest national radio organisation in the world. The envelope theme emphasises the personal involvement and world-ranging scope of amateur radio. The operator, in the stamp area, is depicted against a pattern of amateur radio "call signs" - the "VK" prefix indicating that they are Australian.

Envelope design: Rowan Smith, Australia Post Graphic Design Studio.
Stamp area illustration: Brian Clinton, Melbourne
Envelope number: 095

Australia Post

The repair of the 147.90/30 main repeater is continuing slowly. The new power amp is here, but I've got a full schedule of travel for the next month or so. Needless to say there'll be a slight delay in getting the new amp. tied into the existing driver, and receiver. I hope that this can be done before the first snowfall, or at least before the mountain road is blocked.

We're still in need of a site somewhere up on the hillside for the uplink site to Lake Minchumina. The downlink side paperwork is being processed by the commercial site operator that we hope to get back into. Things look good for our re-entering this site. But time will tell. And of course when the permission comes through, there will have to be a work party to get it all up & installed. Stay tuned for further developments.

We're still waiting for the crystals to arrive for the "new" solid state rpt. for the 94 system. After crystals are here comes the fun of tuneup & rewiring the controller into the new system. I expect that the install will take in the neighborhood of 3-4 hrs. So plan your QSO's and phone patches now so you won't be surprised when the repeater is turned off for the swap over.

Work has come to another standstill on the uplink equipment for the Minchumina project. Al Andrus KL7EF is overloaded (still) at work, & since we haven't had any volunteers to wire up the controller board (cw id, COS & timers) we are just letting this project rest til time can be made available ...not to mention that we still need a site!

We continue to have folks who kerchunk the local repeaters. I suppose to see if it is working. WHY kerchunk?? Just ID, if the repeater comes back to you it's working. If not, either the machine is off the air, or not in range. You wouldn't think of kerchunking a simplex frequency, so why do it on a repeater?

A side note related to phone patches on area machine..REMEMBER, a phone patch is not to be used to circumvent the long distance circuits. This is not only the LAW, but common sense. There are a large number of commercial operations that supply radio telephone service, & of course there is a long distance carrier in this state. If they begin to hear commercial traffic on an AMATEUR rpt., they have every right to complain to the FCC. The repeater could very well lose its phone patch. The same is true of using the patch to avoid paying long distance charges, where telephone service is available. PLEASE don't put the club in the position of having to turn off the patch. If a phone is nearby & available, USE THE PHONE, pay the couple of dollars, and don't risk having the patch taken off for everyone.

A couple of final thoughts..remember to ID even while working simplex, EACH 10 min, & at beginning & end of QSO. This is the LAW & you can receive a notice of violation for forgetting. If you get a notice of viol., you must respond within time frame indicated in WRITING. Don't throw away or lose it without taking necessary actions. Your license will be revoked & you can be slapped with a fine for not responding to an official letter.

Hope the summer has been pleasant & profitable for you. Remember to save your antenna projects for the winter when you don't have to worry about sun-burn or dehydration! See you at the Flea Mkt. I hope to be in town.

By the time you read this, the '85 Flea Mkt will be history. Hope someone has given my fleas a good home, & hopefully I left with less fleas than I arrived with.

How many of you took the opportunity to have your mobile or portable radio looked over at the Tweak and Peak (Turn and Burn) booth?

Did you know that there is a requirement by the FCC that all commercial radios have at least a once a yr. Frequency, Power, & Deviation check? Don't you suppose that a ham rig goes thru just as much abuse, and hard knocks as a commercial radio, if not more? Even if your radio is new, it was shipped from somewhere. They don't grow on current bushes, & shipping can be very rough on tuned circuits. Not to mention the radios that come from overseas are set up for the higher pitched lower amplitude Asian voice. When the lower pitched, higher amplitude American voice works the radio, overdrive & clipping quite often occurs in the audio, resulting in muddy sounding audio. On deviation. . .remember the majority of the repeaters in America are set up to commercial standards. This means a maximum of +/- 5 KHZ! deviation! The standard for voice is to set the deviation peaks at +/- 4 Khz, to allow for the +/- 700 Hz that comes along with PL (R) or CTCSS tones. And touch tones should be set to +/- 2.5 Khz for the number '1' tone set & +/- 3.0 Khz for the '#' tone set. Any heavier deviation just causes clipping & distortion in the transmitter, which fools the tone decoders on whichever repeater you are trying to work.

While on subject of dev. & rpters, please if you are flying around in a small plane & trying to use your handheld, invest in a good noise cancelling mic or boom mic that is noise canceling. Small planes have lots of background noise & it is natural to try and shout above it. The repeaters have a hard time repeating all that noise. Unless you mute the background noise, you can just about forget about making phone patches.

Work continues on the 90/30 replacement power amp. Ran it last Fri. for 1 hr. continuously. No heat rise w/50 watts output. I expect to go up mountain week of Sept. 16th, before heavy snow clogs the road. Work on the solid state transmitter for 94 is on hold til I clear up 90/30 project. Still no volunteers to work on "new" UHF rpt., so old one stays off the air for awhile longer. Still haven't had anyone up on hillside volunteer a location for the Minchumina Uplink site. Permission is in mill for downlink site. Will have to shell out money to buy a set of duplexers for this project. Other VHF happenings around area, incl. the TOK 34/94 rpt. is back on air. Thanks to SAP (Seward Amateur Project) a new repeater on 34/94 is on in Seward. Thanks to KL7HNU, KV9D, KL7IOL and others.

Bristol Amat. Radio. Fraternity (BARF) is working on getting 34/94 machine in Dillingham area. This will give bootleggers something to think about while they are abusing our band.

If interested in RTTY on VHF, there is RTTY rpt. on & ready for use on 146.10/70 in Anchorage. If interested in packet radio, see Walt Pierce, AL7CM. He can be found on bulletin board system called CHSIE (243-0324). Did you know there are at 2 Bulletin Boards in area that have sections set aside for Ham users? CHSIE 243-0324 & ACME 345-6661. Nice place to leave messages for fellow hams, get latest news, or help w/problems. All you need is computer, a modem (telephone style) and of course a phone. Give it a try. As one of our members who also belongs to the CHSIE board & is fond of using quotes can tell you, it's a lot of fun! That's about it for this report, please remember that 911 is used for Emergency's Only! Life threatening situation. The standard fender benders, stray dogs, etc. don't belong on 911. Use 912 for the City Police or 913 for the State Troopers normal dispatch centers.

73's . . . Doug, KL7IKX

SEPTEMBER 1985 VHF

ANCHORAGE AMATEUR RADIO CLUB, INC.
Minutes of Board of Directors Meeting, September 11, 1985
Hope Cottage Offices, 2805 Bering Street

Present: President Lance Dunbar AL7BK, Past President Daniel Stevens KL7WM; Vice-President Bud Laws KL7IBZ; Secretary David Epstein KL7LO; Treasurer Beth Head NL7FZ; Trustee Bill Reiter KL7ITI; 3-year Board Members J. D. Delancy K1ZAT/NL7, Jim Larsen AL7FS, and Fred Toliver KL7HM; 1-year Board Members Steve Wilcox KL7JIM, Rick Marvin KL7YF, Cathi Moody KL7NR, and Rod Maney KL7SA. **Excused:** Activities Manager Linda Harmon NL7FY and 1-year Board Member Ed Tucker KL7DU. **Absent:** 1-year Board Member Bill Capers AL7BB. **Also present:** Lil Marvin NL7DL and Robert M. McKinnie AL7AW.

The meeting was called to order at 7:03 pm AKDT by President Lance Dunbar AL7BK. Rick Marvin KL7YF moved that the minutes of the previous minutes not be read as the procedure took up too much time. The motion died for lack of support. KL7LO suggested that, instead of reading the previous board meeting minutes (which were printed in the September club newsletter), any corrections be noted and made a part of the record. AL7AW stated that the July 24th board meeting minutes were in error in that the club property recently found at Tibor Bothany's house had, in fact, not been there for 4 years. It had been there since last fall. With these corrections, the July 24th board meeting minutes were approved.

Bob AL7AW continued on with an **Arts Fair Wrap-up**. He stated that our help was sufficient, but that the Arts Fair was not as heavily attended this year as in the past. In addition, raffle ticket sales had been slow -- perhaps a dozen tickets at most sold for the whole day.

Lil Marvin NL7DL offered up **the final Flea Market Report before the Big Event**. She immediately obligated everyone attending the Board meeting to hit up their employer or some other acquaintance for door prizes. Lance AL7BK mentioned that he had the newsprint for the banner to go on the building, but the banner had to be made and put up on the building -- he needed help. KL7LO will sell the pull tabs, and the gaming license will be on site. Turning to the Flea Market Banquet, we had, at the time of the Board meeting, sold half the tickets we needed to sell to break even. The Haufbrau had been confirmed for a party of 40 on Saturday night. The Icom IC-2AT door prize had arrived. The subject of selling additional door prize tickets at the banquet to further cover expenses was discussed.

Lance told us that the **Fur Rondy** folks had been hurt financially the last go-around by a State Labor Department ruling that required them to pay overtime to people working on Rondy functions. So, for the 1986 Rondy, the Rondy folks are asking local clubs to volunteer to help them with work that needed to be done -- like setting up tables and chairs, working a parking lot, or helping out with crowd control, etc. These volunteers would be paid by Fur Rondy (how much was not disclosed). The money would go to the clubs, not the individuals, in order to get away from having to pay overtime wages. The Directors immediately picked up on the conflict between monetary gain and use

of Amateur Radio. If ham radio is to be a part of the service provided, the only clean way for Club members to volunteer their services is on a not-for-pay basis, so as not to run into a problem with Part 97. KL7WM and AL7BK pointed out that other radio services, allowing commercial use, could be utilized on a for-pay basis by Club members, providing they were properly licensed to use them.

The State Department of Revenue has invited Club members involved with the **gaming license** to attend a meeting on September 24th in the Federal Building on that subject.

The **minutes** of the August Board of Directors meeting and the September General Club meeting were read. The minutes of the August Board of Directors meeting were corrected to show that Dave Cliff is not Dave Cliff, he's Dale Cliff. The Club property disk was not unilaterally prepared by Martha Neeley KL7QS -- she had help from Lorraine Conary KL7IAF and Daniel Stevens KL7WM. In addition, Board Members NL7FZ and AL7FS were excused from last month's meeting, and not absent. These minutes were then approved as corrected. The minutes of the September General club meeting were approved as read.

Club Treasurer Beth Head NL7FZ passed out the **Treasurer's report**.

Past President Daniel Stevens KL7WM announced that the **Audit Committee** will consist of Bill Barber KL7GM and Bill Barker WB5MYU, and that they would be getting underway with the audit shortly. Lance wants the audit completed as soon as possible so that any discrepancies can be resolved in the near future.

Treasurer NL7FZ embarked upon a **short but effective campaign** for supplies crucial to the accomplishment of her mission, namely a receipt book, stamps, envelopes, and a briefcase. Lance ordered her to procure these items, and told her where she could get a good buy on a briefcase.

This month's **VHF Committee report** was presented by KL7YF on behalf of the traveling KL7IKX. Due to termination dust, we will work on the 90/30 site first, then 34/94. A packet radio QSO had recently been accomplished between Anchorage and Fairbanks via the Minchumina link. Doug is still working on resurrecting the FM portion of the link.

KL7WM asked if a the **Frequency Coordinator** vacancy created by the departure of W5AHO had been filled; to our knowledge, it had not. AL7FS stated that he had done it before and would be interested in doing it again. AL7BK told AL7FS to consider himself interim Frequency Coordinator until we found out for sure what the situation was. Daniel asked if any progress had been made on **Club jackets**. KL7LO responded that he did not intend to do any more on that subject until after the Flea Market, and that a report would be offered at the October General Club meeting. Daniel volunteered to backfill the vacancy in **Alaska Volunteers Active In Disaster** created by the departure of KL7QS. We also need a **club liaison officer to the Red Cross**, and AL7BK suggested that Jerry Smith of the Red Cross be asked to do this. A **club liaison officer to the Anchorage Search and Rescue Council** is also needed, and KL7LO suggested that N7HER be approached to see if he were interested. KL7WM will execute the approach.

Rick Marvin KL7YF stated that **the Club signs needed to be rejuvenated**. What we have is in bad shape due to moisture and use over the years.

Daniel KL7WM announced that the Club Certificates of Recognition had been received from the printer. In addition, he needed \$75 to defray expenses for the Juneau plaque. We are making arrangements to have a videotape made of the presentation ceremony in Juneau.

KL7YF announced that **Alascom** is willing to have us hold a General Club meeting at their main toll center on Government Hill, and perhaps have a tour of a portion of the facilities as the program for the evening. AL7BK mentioned that this would be a good early summer program. We are going to think about it (actually, it will be referred to the Activities Manager).

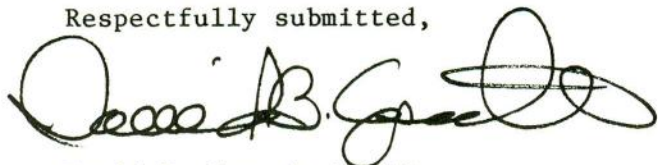
AL7BK offered up a quick **Activities Manager** report on behalf of the ailing NL7FY. The balance in the door prize account is an even \$100, that following a turn-back to the club of \$85.52. This testifies to the high rate of door prize ticket sales at Club meetings. The coffee fund is doing remarkably well, thank you, after the justified reprimand we all received from Mary NL7DM on August 2.

NL7DL has \$180 left from the \$1,000 authorized her at last month's Board of Directors meeting, for the purpose of defraying **Flea Market expenses**.

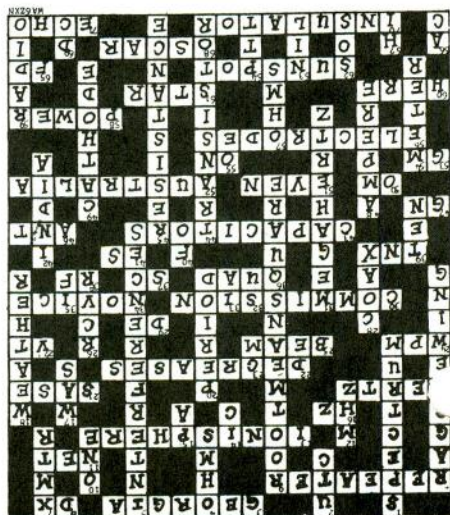
Membership Chairperson J. D. Delancy K1ZAT/NL7 has 10 **Life Membership certificates that he has not been able to deliver to the associated Life Members**. Past policy has been that we would not mail the certificates; however, it appeared timely to revisit that policy. Accordingly, KL7LO moved, and Rod maney KL7SA seconded, that the certificates be mailed to the Life Members. The motion passed unanimously. J. D. had run out of the increasingly popular AARC membership card (increasingly popular because they're good for discounts at some store(s) in town!) and queried the Board, "Do we want to pay to print more?" Further action on this was postponed until after the Flea Market and "we know how we stand money-wise."

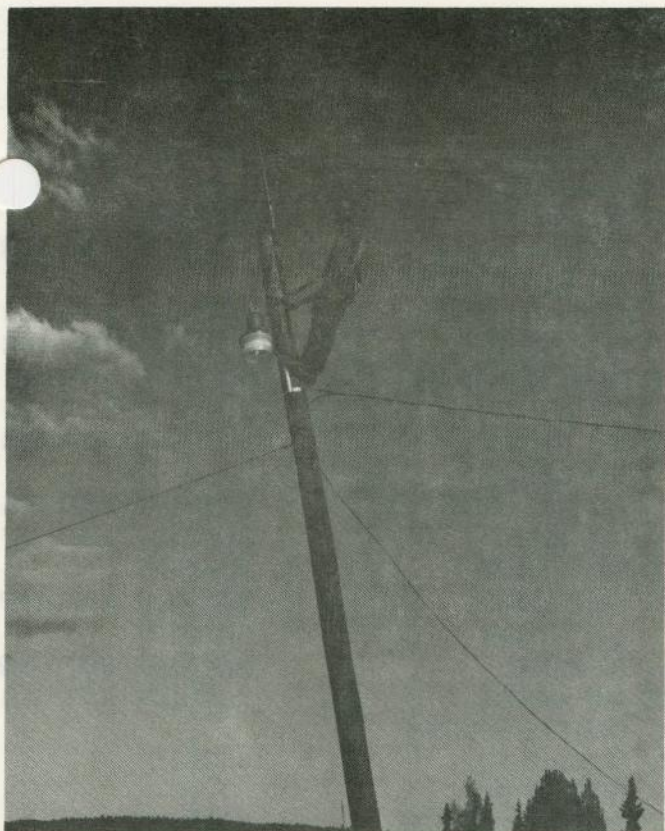
KL7ITI moved, and KL7SA seconded, that we adjourn. The motion passed unanimously. The meeting was adjourned at 9:22 pm AKDT.

Respectfully submitted,



David B. Epstein KL7LO
Secretary





ALASKAN STATE BIRD SURVEYING SCENERY
FROM ATOP A DEAD SPRUCE.



LET'S SEE...THIS END GOES HERE. . .NO,
MAYBE THAT END GOES THERE. . .HMMMMMM.

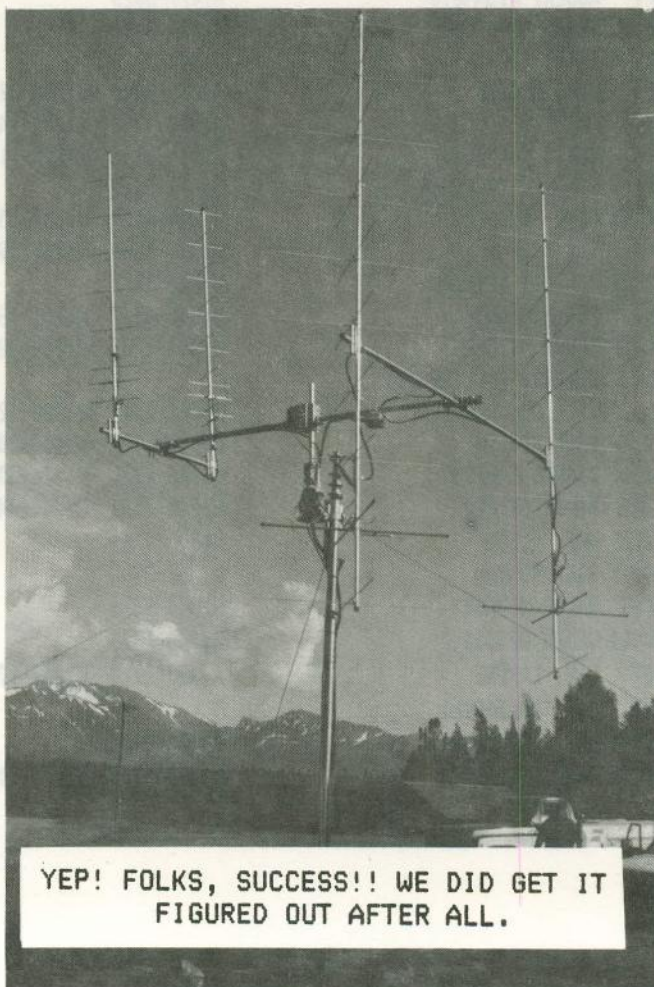


IS THIS WHAT THEY MEAN BY "HOME BREW
EQUIPMENT"?

F
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1
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YEP! FOLKS, SUCCESS!! WE DID GET IT
FIGURED OUT AFTER ALL.

AARC MINIROSTER

HOME

WORK

AARC MINIROSTER

HOME

WORK

--- --- ROBERT O. BAKER	H:345-4692		WL7 BCB GERALD JONES	H:235-8015	W:235-8101
--- --- TIBOR BATHONY	H:345-0373		KL7 BCH ED OLENDORFF	H:892-6311	W:277-7
--- --- JEFF BOUDEN		W:562-2772	WB4 BCN JAMES WALKER	H:337-5840	
--- --- DON CLOUSER	H:337-0752		NL7 BD TIMOTHY J BAUGHMAN	H:345-0540	W:345-3725
--- --- IDITAROD TRAIL COMMITTEE			WL7 BDT BRET W. DITTLINGER		
--- --- EUGENE D. EATON JR	H:274-2185		KL7 BE ALLEN W. CRONK	H:745-6904	W:786-2868
--- --- KENNETH W. FISHER	H:338-0066		NL7 BE FENTON REXFORD	H:561-8997	W:561-5144
--- --- SANDY HAUSER	H:333-8124	W:277-8615	WL7 BER NORMAN GLENN KAYTON	H:279-3748	W:279-8471
--- --- DENNIS D. HOWARD	H:694-5188	W:552-3527	NL7 BG STEPHANIE OGLESBY	H:344-4118	W:561-1520
--- --- RICHARD D JOHNSON	H:344-4050	W:274-0603	KL7 BGZ NEIL THALAKER	H:279-3910	W:271-5304
--- --- LARRY MCINTOSIT	H:333-4851	W:276-0023	KL7 BI GLEN GREELEY		
--- --- RAYMOND C. MORGAN	H:562-7341		NL7 BI WILLIAM T GRIFFIN	H:344-4749	W:272-1446
--- --- LYLE C. REIFF	H:274-3881	W:561-3211	NL7 BJ PAUL JENDRYK	H:248-5312	W:564-9611
--- --- JEROME J. SMITH	H:337-4606		KL7 BJD MARY OLENDORFF	H:276-5447	
--- --- EARL TOWNER	H:337-6583		AL7 BK LANCE DUNBAR	H:337-6297	W:561-5457
NL7 A JOHN J JONES	H:333-7888	W:562-2240	AL7 BL GARY MCCROREY	H:376-3777	
KL7 AA THE AARC	345-0719	Auto 919	AL7 BN SUE MICHAEL	H:349-1673	W:271-3162
NL7 AC DEBBIE SOLTIS	H:688-2896		WD0 BUS SKIP WIDTFELDT	H:337-1673	W:272-1561
WA1 ACN JOHN W CARTY	H:337-4488	W:552-4212	NL7 BV CHARLES E BRIGHTMAN		
WL7 ACQ LESLIE G AUGUSTSON	H:262-5940		KL7 BW GEORGE MENARD	H:733-2521	
NL7 AD GUY H ROSSINI	H:345-6038	W:265-8845	NL7 BW LARRY ASPLUND		
WL7 ADK DON WERKEMA	H:428-2858	W:862-2292	NL7 BX CHARLES CRAPUCHETTES	H:337-8861	
N5 AEN ARTHUR H WERTZ	512-674-8468		KL7 BY DANIEL A. HILL		
NL7 AF MARRINER BERTHOLF	H:277-4672	W:277-2511	AL7 BZ NORM NEULS	H:345-5485	
KL7 AGU DAVE A FULTON	H:243-3205		NL7 BZ BETH ASPLUND		
W5 AHO WALTER NEELEY	H:337-2603	W:564-4383	NL7 C JAMES L MOODY JR	H:694-4007	
NL7 AJ JOHN PIENIADZ			AL7 CA FRANK PRATT	H:333-8212	W:337-1774
KL7 AM ROBERT HISAMOTO	H:479-5025		AL7 CB ROBIN SMITH		
WL7 AME JERRY GANOPOLE	H:277-7887		AL7 CD LINDELL M MCCOY	H:333-0565	
KL7 ANV EMITT SOLDIN	H:344-3016		KL7 CF HOWARD PIERCE		
NL7 AO FRED BROOKS	H:338-0698	W:266-3290	KL7 CG CARL NELSON	H:688-2830	W:266-1610
AL7 AP WAYNE G GILMORE	H:562-4203	W:274-1418	AL7 CJ FRANK D LIENTI	H:345-7104	W:272-5713
KL7 AP BETTY C RHODES	H:345-1061	W:345-1140	KL7 CMQ CHARLES T COLEMAN		
WL7 APB WENDELL BRUCKNER	H:694-9662		AL7 CN ERV EDGE	683-225-1127	
WL7 AQQ PETE GONZALES	H:344-6120	W:333-5591	NL7 CN JOHN T CLOUGH	H:279-6554	W:338-3089
NL7 AV SUE HILTON	H:337-5058	W:266-1314	N2 COD MICHAEL T. PERRY	H:248-2554	W:276-0517
KL7 AVS MERRITT TEGELER	H:822-3895		NL7 CP JOSEPH WILLIAM KILE	H:892-6365	
AL7 AW BOB MCKINNIE	H:345-4967	W:786-2873	KL7 CQ WILSE G MORGAN	H:345-1061	W:271-5317
WL7 AWJ GLENN HITCHEN	H:344-0782	W:248-3308	AL7 CT JOHN H WILLIAMS	H:338-4751	W:862-3118
WL7 AXI BEVERLY FAULTERSACK			KL7 CU SHIELA BERTICIVICH	H:561-5473	W:561-5515
NL7 AY WILLIAM CRANDALL	H:456-2605	W:488-6261	KL7 CUK LEROY J DAVIE	305-574-2865	
WL7 AZA GARY RIGDON	H:694-5627	W:659-2800	AL7 CV APRIL DELANCY	H:345-0507	W:561-0011
WL7 AZK DIANNE HAMPTON	H:376-4371	W:376-5500	AL7 CY PEGGY DON	H:345-1504	W:243-1987
K0 AZZ HOWIE OKLAND	H:248-2166	W:263-4482	KV9 D GEORGE HURD	H:337-4186	W:552-4060
WL7 AZZ KARL OLSON	H:345-5744		NL7 D TIM MICHAEL	H:349-1673	W:564-9610
WL7 BAP RICK RUNYAN	H:688-2963		WL7 D FRANK BOWLIN	H:337-5507	W:338-6803
WL7 BAT RALPH WESSER	H:346-1376		NL7 DB MIKE EVANS	H:344-4447	W:276-6222
WL7 BAU WENDY WESSER	H:346-1376		NL7 DC TOM A ENGBERG	H:428-3141	W:863-1209
AL7 BB B.B. CAPERS	H:337-2916	W:862-1202	NL7 DE ROSE BANSE	H:694-9526	
KL7 BB BILL BALZARINI			NL7 DF BONNIE JENNINGS	H:243-1146	
KL7 BBO DON J BRUCKNER	H:694-9662		NL7 DH CAROLYN EVANS	H:344-4447	W:786-3369
WL7 BCA JOHN UNTERBERG	H:274-5265	W:274-0065	NL7 DI GILBERT BLUE	H:338-0829	W:267-1364

AARC MINIROSTER

NL7 DJ BRADLEY N KEENE
 DJE NATHAN SMITH
 KL7 DK RICHARD L STEWART
 NL7 DK HARVEY E ROOKUS
 AH6 DL RAY CAMERON
 AL7 DL BRYCE RUMERY
 NL7 DL LILLIAN MARVIN
 NL7 DM MARY LAWS
 NL7 DN DENNIS STRAIT
 AL7 DR LEONARD ALESSI
 AL7 DT GINGER WEED
 KE7 DT JERRY R SWANSON
 KL7 DU ED TUCKER
 KL7 DV GEORGE C STROTHER
 WB7 DXD CHUCK LOCKNER
 KL7 DZE MIKE NAUMANN
 NL7 EA HANNELORE KELLIHER
 AL7 EB EDWARD R COLE
 KL7 EB DAVID W STEVENS
 KL7 EF ALAN ANDRUS
 KL7 EI JENNIFER NELSON
 AL7 EJ DAVID R OGLESBY
 KL7 EJ P. BEAUGARD
 AL7 EK CLARK SANN
 KL7 EKB DEL WOLFINGTON
 KL7 EM RUSSELL E SCOTT
 ENP ROBERT WOOLSEY
 EQX EARL PLUMB
 N4 ERF JOEL W SPIVEY
 KL7 ERV ROBERT CHRISTENSEN
 AL7 EU JERRY WARD
 KL7 EU MARSHALL RONNE, JR
 NL7 EV PETER K MARKVARDSEN
 KL7 EW RICHARD GOSHORN
 NL7 EY A.E. BENSON
 NL7 FA JIM OWENS
 KL7 FB CHRIS HAZLITT
 N7 FCT GAIL WOOLETT
 N7 FCU WILLIAM WOOLETT
 KL7 FD KEN DELP
 NL7 FG PAUL GALLION
 KL7 FHX FIELDER GEORGE DOWDING
 AL7 FI RICHARD L RUNYAN
 KL7 FI PAUL BESTRY
 AL7 FJ SHARI K RUNYAN
 KL7 FK FRED C GRAHAM
 KL7 FKO ALLEN BIANCO
 NL7 FM THOMAS BERTICIVICH
 KL7 FN CLEO J MORRIS
 KL7 FNX BILL CROWL
 KL7 FO DAVE ZUGSBERGER
 N7 FQ TOM CLOONAN

HOME

WORK

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 H:243-1517 W:276-1833
 H:346-1550 W:562-2211
 H:333-6304 W:786-8192
 H:376-3865 W:376-5432
 H:376-1226 W:376-6446
 H:563-3384
 H:694-3722
 H:345-6506 W:272-1213
 H:337-4401 W:267-1356
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 H:428-2029 W:863-1209
 H:274-8249
 H:338-5784
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 H:274-2951
 H:694-9415 W:271-3897
 H:562-4101
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 H:688-2963
 H:345-3254
 H:561-5473 W:561-5515
 H:688-2746 W:345-6800
 206-631-7439
 H:586-2472 W:465-3568

AARC MINIROSTER

KL7 FRO BOB HOLT
 AL7 FS JAMES H LARSEN
 KL7 FS ARTHUR CHASE
 NL7 FU EDWARD J. YOUNG III
 KL7 FV DYANNE BESTRY
 AL7 FX STEVE BANSE
 NL7 FX CHRIS HANSON
 W7 FXX JOSEPH DREMER
 AL7 FY RICHARD C NEELY
 NL7 FY LINDA HARMON
 KL7 FZ STEVE TOLLEY
 NL7 FZ BETH DANIEL HEAD
 AL7 G HERBERT M ROSENTHAL
 WL7 G GUNNAR KNAPP
 NL7 GA TOM KESTER
 W2 GBK KAY NUTTALL
 NL7 GF TONY DURR
 KL7 GGT D.B. GLEASON
 KL7 GHB GUY H GREENE
 KL7 GHG JOHN SKURLA
 KL7 GID EUGENE MOCKERMANN
 AL7 GJ VIRGIL BALL
 KL7 GJS DEBORAH BIANCO
 AL7 GK DOUG DOUGHERTY
 KL7 GLU MARGIE PAGE
 KL7 GM WILLIAM J BARBER
 N6 GM ROY C GOULD
 KL7 GMW CHARLES CRAPUCHETTES
 AL7 GN C.D. ROBISON
 KL7 GN GORDON NIGHTINGALE
 KL7 GNP JOHN BIERMAN
 KL7 GPK JACK MATTHEWS
 KL7 GQ ROY H HANSEN
 KL7 GQQ JOHN SPENCER
 KL7 GRG DON R. MEIERHOFF
 KL7 GRT LES COLLISON
 AL7 GS HOWARD P HORNSBY
 KE4 GS KELLY D ANDERSON
 KL7 GU ALLEN TURNER
 K7 GUH THOMAS P OWENS
 AL7 GV J.C. GRUBBS
 NL7 H GREGORY NIGHTINGALE
 KL7 HAB DAVID LAWRENCE
 KL7 HAY HAROLD L BERRY
 KL7 HD MARK HADLEY
 KL7 HDJ RICHARD W NEHLS
 N4 HEE PAUL M ROSE
 N7 HER BOB DOUGLASS
 WB6 HEV C.D. HORTON
 KL7 HFA MIKE JOHNNIE
 KL7 HFM FRED WEGMER
 KL7 HFQ ROGER HANSEN

HOME

WORK

H:349-4100
 H:345-3190 W:264-7335
 H:346-2449
 H:694-9526
 H:248-4978
 503-278-1145
 H:563-7390
 H:333-4754 W:344-5146
 H:694-3401 W:786-4219
 H:243-5949 W:276-3500
 H:337-3200 W:263-0614
 H:562-4105
 H:688-4342 W:263-9153
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 H:345-1323
 H:243-6473 W:243-2683
 H:892-6168
 H:561-0272 W:561-6193
 H:345-3254
 H:783-2883
 H:279-1240 W:267-1278
 H:333-7019
 H:337-7632
 H:337-8861
 H:562-5001 QSL B/M
 H:333-1808 W:279-9586
 H:243-1046 W:264-3757
 H:274-8756
 H:753-1886 W:552-3858
 H:274-1246 W:243-4545
 H:694-2360 W:263-7806
 H:688-3351
 H:243-2952 W:564-9251
 H:272-2767 W:274-3017
 H:333-7309
 H:694-4193 W:552-6222
 916-966-3291
 H:276-5518 W:562-2046
 H:274-3464 W:862-9280
 H:243-2221 W:786-8121

AARC MINIROSTER

KL7 HH KENNETH LANE
 KL7 HHO WAYNE GROOMER
 KL7 HHR AL HAYNES
 KL7 HIU ROBERT L PAGE
 KL7 HJD HAL STEVES
 KL7 HJZ JOHN D TWIGGS
 KL7 HKH RIK V SHAFFER
 KL7 HKP M. NEAL FREDSTROM
 KL7 HM FRED TOLIVER
 KL7 HNM BRIAN D WICK
 KL7 HO ARLENE STEWARD
 KL7 HOT ROGER WEED
 KL7 HQJ HAROLD S FARNEY
 KL7 HW THOMAS E MONROE
 N7 IA GARY DIXON
 KL7 IAF LORRAINE CONARY
 KL7 IBA FRANK N VAN ZANT
 KL7 IBZ CLAUDE V LAWS
 KL7 ICB JOHN BAINSDJORDAN
 W7 ICI BOB LUPO
 KL7 IEN JAY L MEAD
 KL7 IFK DON HOWELL
 W4 IGM JOHN W SHULL
 KL7 IJ GEORGE L STEWART
 KL7 IKF HAL KOSTLIN
 KL7 IKV LYNN HAMMOND
 KL7 IKX DOUGLAS P DICKINSON
 KL7 IMD JAMES C HILTON
 KL7 IOL RICHARD DENNIS
 KL7 IPV FRANCIS J DRAKE JR
 KL7 IQP JOHN ARSENAULT
 KL7 ISI MICK MONROE
 KL7 ISP STEPHEN SCHNEIDER
 KL7 ITI WILLIAM R REITER
 KL7 IUJ CURT HARRIS
 KL7 IW WALTER BURKEVICH
 KL7 IWC LAWRENCE H WALTER
 KL7 IWY DICKSON G PRATT
 KL7 IXT MIKE BARBARICK
 KL7 IZJ DEANNA BARBARICK
 KL7 IZL ORV GILBERT
 KL7 IZO BILL ODOM
 KL7 IZZ HARLEY STEWARD
 W17 J WILMOT WARNER
 KL7 JA TOM CHOATE
 KL7 JAI KEN GREENE
 KL7 JDR BRUCE W MILLS
 KL7 JFJ WILLIAM WARD
 KL7 JGJ TERRY BECKHAM
 KL7 JGN LLOYD FULLER
 KL7 JGU JAY IVAN JENNINGS
 KL7 JIG HERBERT K BRASSEUR

HOME

WORK

H:337-2092 W:272-0034
 H:376-5604

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 H:344-8873 W:552-3375
 W:271-5802
 H:274-3149 W:564-4174
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 H:346-2900 W:561-2233
 H:561-8280 W:786-1743
 H:345-1530 W:349-4402

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 H:272-5220 W:279-0422
 H:333-6305 W:561-1001
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 H:344-5989 W:564-1458
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 H:333-7875 W:271-5057
 H:333-6858 W:552-4618
 H:344-0103 W:563-3299
 H:694-9993
 H:337-6170 W:265-2948
 H:349-4131 W:267-1421
 H:337-5058

 SILENT KEY
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 H:283-7727 W:277-9432
 H:337-1779 W:552-3358
 H:571-1204
 H:277-0450
 H:345-0198

 H:688-3890 W:264-4128
 H:688-3890 W:277-5661
 H:661-3328
 H:248-0903
 H:345-1530
 H:349-2489 W:561-1902
 H:333-5309 W:786-1344
 H:243-2576
 H:262-4373 W:659-5491
 H:438-2219 W:438-2511
 H:694-9575 W:753-2583
 H:243-7391 W:272-4531
 H:243-1146
 H:243-6239 W:344-9661

AARC MINIROSTER

KL7 JIJ JAMES MINTON
 KL7 JIM STEPHEN A WILCOX
 KL7 JKC DAVID GOODYEAR
 KL7 JKE CONRAD HILPERT
 KL7 JKV DAVID ANDERSON
 KL7 JKW DEL HANRATH
 KL7 JX JANIS M MONROE
 KL7 K DAVE OLSON
 WL7 K VINCENT A VANDERHYDE
 KL7 KI BILL THOMAS
 KL7 KU T. STANTON WILSON
 KL7 KY JERRY BELANGER
 KL7 L PATTI OLSON
 WL7 L CHARLES H FORTIER
 KL7 LA ROSEMARY HANRATH
 KL7 LE JIM GRAVES
 KL7 LH LUCILLE HILPERT
 KL7 LL JOHN D ORELLA
 KL7 LO DAVID EPSTEIN
 KA0 LUE SCOTT SPECKHART
 K7 MBY JAMES D HOGGARD
 KL7 MC LARON GLOVER
 KL7 MD JASPER HEATH
 KL7 MF HAROLD D DEVOE
 KL7 MJ REED MCKINNEY
 KL7 ML STEVE SCHROEDER
 KL7 MQ JOYCE CURMAN
 WB5 MYU WILLIAM BARKER
 K3 NFU ROY BERKOWITZ
 KL7 NG BETTY MENARD
 KL7 NK JOSEPH TALBOTT
 KL7 NR CATHERINE MOODY
 KL7 NU MARV WEATHERLY
 KL7 OB BUD EPPERSON
 KL7 OG BUTCH BISHOP
 KA7 OJB JAMES J. WZOREK III
 KL7 OK EUGENE MORRIS JR
 WB6 OMI FORREST BOGARD
 KL7 ON LINDA OKLAND
 KL7 OR ELLEN EDGE
 KL7 OS MARK ENNERSON
 KL7 OX SUSIE PETTIS
 KL7 OY DAVID SMYERS
 WA5 OYH JIM VAUGHAN
 NL7 P DAVE VOGEL
 KL7 PA LOANE E. JANSON
 KL7 PC ROBERT W GUNSON
 KL7 PG HAROLD HITCHEN
 KL7 PN STEPHEN W. STOUT
 KL7 PQ KIRSTEN PETERSEN
 KL7 PU JEROME GEORGE
 WA0 PUJ GLENN JOHNSON

HOME

WORK

H:248-1965 W:562-2242
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 H:278-2193 W:562-2772
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 W:279-0543

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 H:495-6213
 H:783-2495
 406-782-0328

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 H:753-2463 W:552-5401
 206-743-0082
 H:274-1949 W:337-4411

 714-466-8506
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 H:333-1034 W:279-9608

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 H:344-5488 W:263-2102
 H:243-5499 W:272-8224
 H:753-5377 W:552-2467

 H:694-3890 W:271-5906
 H:235-6814
 H:248-2166
 H:338-4409 W:561-1944

 H:276-1977 W:277-1923
 H:344-4344 W:344-0501
 H:337-2699 W:269-1136
 H:278-2282 W:561-1944
 H:243-7576
 H:694-7040
 H:248-3308
 H:248-1541 W:786-0630

 H:345-1841 W:561-1148
 H:243-5205 W:552-3737

AARC MINIROSTER

KL7 PX LARRY F GRINDROD
 PY PAUL NILSON
 QC DWIGHT D CLIFT
 K8 QPP WENDELL NELSON
 KL7 QS MARTHA NEELEY
 KL7 QW DAVID MEYE
 KL7 QY SHERMAN REYNOLDS
 KL7 QZ JOHN C BURY
 NL7 R DENNIS ALLEN
 KL7 RB STEVE DIEHL
 KL7 RH DUNCAN C FOWLER
 K5 RSO EDWIN C. SCHILLING
 AL7 S DANIEL J KRUSHENSKY
 WL7 S TOM SOCKOLOSKY
 KL7 SA RODNEY G MANEY
 KL7 SD KENT LARSON
 KL7 SE FRED KLETKA
 WB7 SFO KEN SLAUSON
 KL7 SG MICHAEL A. HAUSSEY
 KL7 SH RICHARD L DAY
 KL7 SI JOHN PASH
 KL7 SK ART TAYLOR
 W7 SOV PETER J LAPLANTE
 KL7 SQ HANS BUCHHOLTZ
 KL7 SV ROBERT FAULTERSACK
 AG4 T AMELIO A. CHAVIANO
 NE7 T GLEN TURNER
 TJ MAEVE RYAN
 KL7 TL PATSY KLETKA
 KL7 TM TOM GREEN
 KL7 TN LESA GREEN
 KL7 TO ALFRED W GIEBEL
 KL7 TP BOB FARKAS
 K7 TPN RICHARD W PHELPS
 KL7 TQ MARK KELLIHER
 KB7 TW PATRICIA CHADDOCK
 KB7 UG JIM CHADDOCK
 KL7 UPS HAP WURLITZER
 KL7 UQ FRANCIS SOLTIS
 WA7 USX MICHAEL MCLAUGHLIN
 KL7 VB HARRY GILMORE
 KL7 VC FRED ERICKSON
 KL7 VD BETH ASSADI
 KL7 VF DENISE SLAUSON
 KL7 VL SHARON A DEAN
 KL7 VN BRADFORD HOLIFIELD
 WB5 VQU DONNA VAUGHAN
 KL7 VS WILLIAM EVERETT
 KL7 VT JEAN BELFIELD
 W8 VWJ PALMER FORSMOE
 KL7 WE TIMOTHY PETTIS
 KL7 WF STEVEN D HILDEBRAND

HOME

WORK

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 H:349-4243 W:266-1265
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 H:337-2603
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 H:789-2408 W:465-4970
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 206-671-7692
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 H:276-1977 W:264-7818
 H:789-9561 W:465-2509

AARC MINIROSTER

KL7 WG JIM TILLY
 KL7 WK ROBERT W HOLIFIELD
 KL7 WM DANIEL STEVENS
 KL7 WQ NORMAN WISWELL
 KL7 X MIKE TURNER
 KL7 XG LESTER D EDWARDS
 KL7 XM TOM REHRER
 KL7 YF RICK MARVIN
 KL7 YH BENJAMIN WHITEHEAD
 KL7 YL VIVIAN JOHNSON
 WB0 YNS DICKERSON MACLEOD
 KB5 YR MILO HARDENBROOK
 KL7 YZ ROBERT SPENCER
 K1 ZAT J A D DELANCY
 KL7 ZH BARBRA SHIVE
 KL7 ZJ STEVEN A MORRISON
 KL7 ZK DOUG MONTOYA
 KL7 ZM RICH WHITNEY
 KL7 ZO BILL GAMEL
 KL7 ZP BETH GAMEL
 KL7 ZV JIM BENDER
 KL7 ZY LINDA NILSON

HOME

WORK

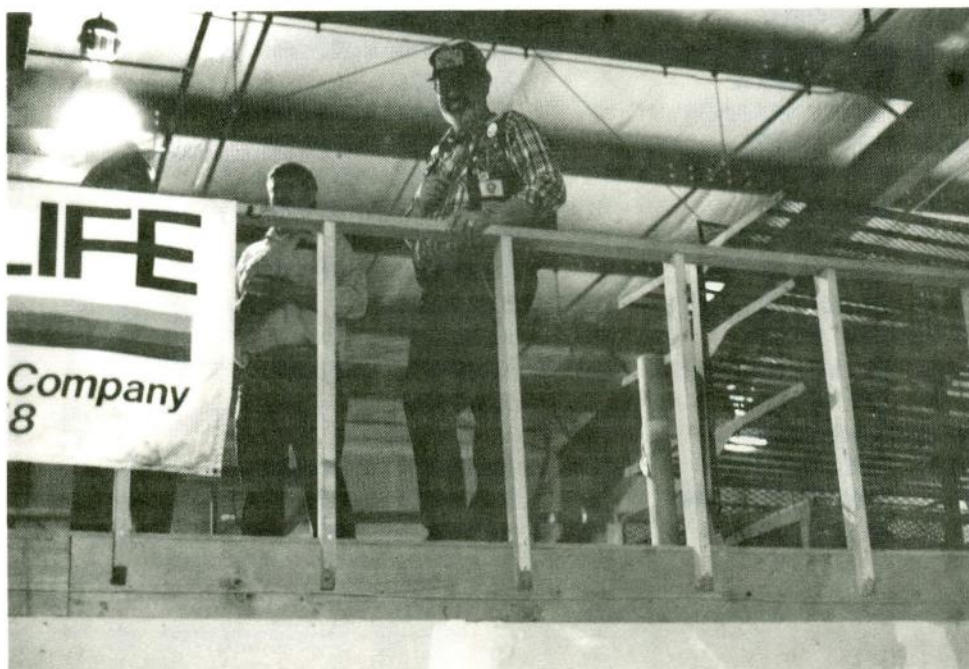
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 H:349-2263 W:243-2683
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 H:345-4776 W:279-0574
 H:345-4776
 H:349-4243 W:249-1196

FLEA MIKT



EXCHANGING "FLEAS",
SWAPPING STORIES, JUST
PLAIN HAVING A HECK OF
A TIME!

AND NOW, DOWN FROM MOUNT
OLYMPUS, BY POPULAR DE-
MAND, THAT LIVING LEGEND
OF AN AUCTIONEER. . .HIS
HONOR - WILSE MORGAN!!





ARRL BOOTH, WITH MARY LEWIS, W7QGP, THE NORTH-WEST DIRECTOR FOR ALASKA, WASH., OREGON, MONTANA, AND IDAHO.

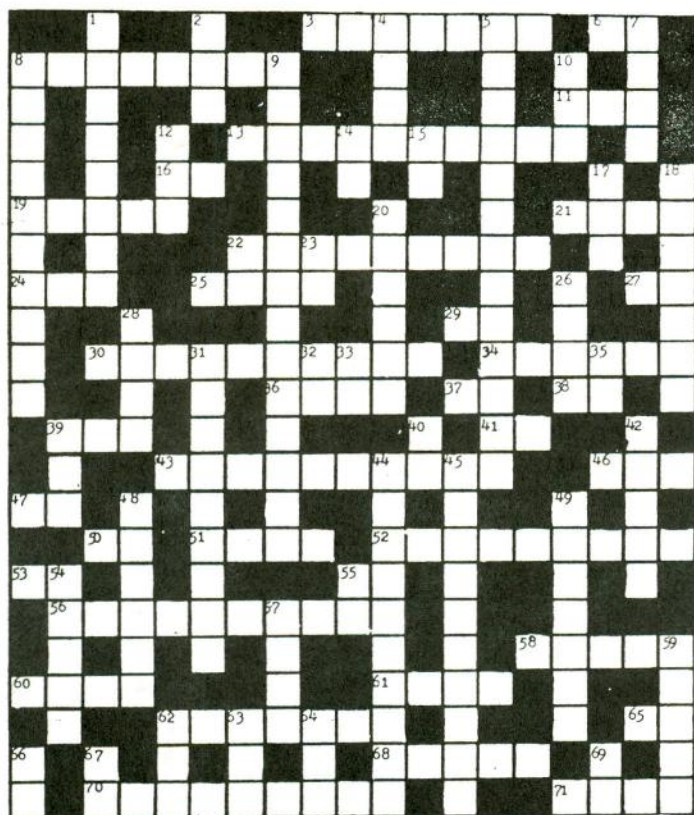
MARY LEWIS WAS THE SPEAKER FOR THE BANQUET HELD AT HOF BRAU HOUSE ON SATURDAY NIGHT. HERE, KL7WM IS PRESENTING HER WITH A DIAMOND WILLOW WALKING STICK.



CLUB PRESIDENTS - PAST & PRESENT - ON PARADE!
FRED WEGMER, KL7HFM; WILSE MORGAN, KL7CQ; BETTY RHOADES, KL7AP; BOB MC KINNIE, AL7AW; CURRENT PRESIDENT LANCE DUNBAR, AL7BK. .AND LAST YRS PRESIDENT, DANIEL STEVENS, KL7WM. GOOD LOOKIN' CREW!

Crossword Puzzle

John Lawson, WA6ZXN



DOWN

1. The entire range of wavelengths in radio waves.
2. The same as Greenwich mean time.
4. Who's law states voltage(E) = current(I) multiplied by resistance(R).
5. QRM and QRN.
7. Transmitter.
8. Talking for hours.
9. r.m.s.
10. Number of years a log must be kept.
12. A million cycles per second. (abbr.)
14. Integrated circuit.
15. Power amplifier.
17. Award for confirming all states in the U.S.
18. WX
20. ditdahditdahditdah.
22. "This is" in Morse code.
23. Cuba prefix.
26. Receiver.
28. Common transmission line.

31. 1000 kilohertz.
32. Egypt prefix.
33. State in W0-land. (abbr.)
35. Intermediate frequency.
39. Excellent daytime DX band during the years of high sunspot activity.
40. Clipperton Island prefix.
42. The ITU phonetic word for "I."
44. A solid-state tube.
45. Voltage(E) divided by current(I).
48. Unit of current.
49. An electrode of a tube.
54. The approximate metric equivalent to the yard.
55. Austria prefix.
57. Units of resistance.
59. Transceiver in laymen's terms.
62. Distress call in Morse code.
63. Nothing.
64. Push to talk.
66. Type of current found in house lines.
67. The telegraphic laugh.
69. Type of current from a battery.

ACROSS

3. State in W4-land.
6. Radio stations in other countries or at great distances.
8. Station receiving a signal on one frequency and automatically retransmitting it on another.
11. A group of hams meeting on a specific frequency, at a scheduled time, for direct communications.
13. Used to propagate high frequency radio signals over great distances.
16. Hertz (abbr.)
19. One cycle per second.
21. Usually sent to guarantee a reply by mail.
22. Happens to resonant frequency as antenna length increases.
24. Five required for Novice; 13 for General; 20 for Extra.
25. Excellent directional antenna.
27. W1-state with the least number of amateurs. (abbr.)
29. From
30. Federal Communications _____
34. Beginner's ticket.
36. Type of beam antenna.
37. One of North Carolina's neighbors. (abbr.)
38. Radio frequency.
39. Thanks.
41. And.
43. Electrolytics are common types.
46. Antenna. (abbr.)
47. Good night in Morse code.
50. Old man in Morse code.
51. Not odd.
52. Country with "VK" prefix.
53. Good morning in Morse code.
55. Belgium prefix.
56. Tube's internal components
58. Current (I) multiplied by voltage (E).
60. Not there.
61. A heavenly object in radio astronomy.
62. The maximum usable frequency has a direct relation to this cycle.
65. Field day. (abbr.)
68. A Space Age VHF repeater.
70. A poor electrical conductor
71. The ITU phonetic word for "E."

NICADS---A BRIEF OVERVIEW



Nicads in good shape should read about 1.42 volts when fully charged.

Internal impedance is very low.

Impedance rises as the battery discharges.

To maintain charge, batteries should be stored at a freezing temperature to about -40 degrees f.

Nicads may be charged at C/30 forever.

Fast charge is considered to be about C/3.

Nicads fully charged will deteriorate to about a 10% charge in 20 weeks.

Batteries frozen will maintain 90% of their charge after six months.

Nicads should not be allowed to become completely discharged unless done at a slow rate. Such as, "squelch open and volume on very low".

Nicads stored for long periods of time should be stored discharged.

Nicads will develop a memory if discharged to a similar level many times.

Memory may be avoided by letting the battery discharge to various levels.

When the low battery indicator goes on, the battery should be recharged without further drain.

Batteries that have a heavy current drain during the transition of a discharged state will be damaged and have a shorter life.

By observing the rules of nicad charging and discharging, a battery will have a life of about 3000 full cycles.

A batteries worst enemy is extreme heat. Never charge in a hot location.

A battery full fast charged temperature will be about 125 to 140 degrees.

Never charge nicads in parallel nor draw current from them in parallel.

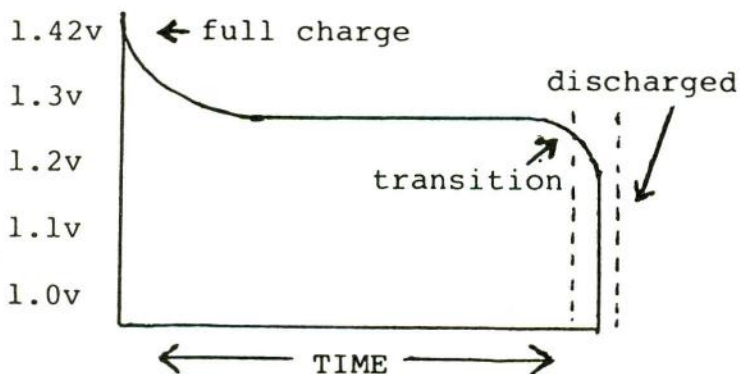
Nicads may be charged at C/10 for a week with no harm.

Never short nicads or attempt to charge off a 12v battery. It may explode.

A shorted cell may be opened by discharging a very large capacitor into the nicad. The capacitor should be enervated to about 13 volts.

Nicads should be charged with a 'constant current voltage limited' chgr..

CURRENT DUTY GRAPH



● American "Woodpecker" coming?

The United States is due to change their DEW-line surveillance radars to state-of-the-art OTH (over the horizon) systems next year. OTH systems have a 5,800 mile range and operate in the HF bands between 5 and 28 MHz. Radar signals reflect back from the ionosphere thousands of miles away giving OTH radar ten times the range of present day systems. Propagation is assessed by computers which shift the radar's frequency to the most favorable spot within its six hf bands. The USSR has been using OTH radar for some time as any DX operator can attest to.

DO'S & DON'TS OF AUTO PATCHING

HERE IS A GENERAL OVERVIEW OF WHAT IS EXPECTED OF YOU:

Can I call my office & tell them I'll be late?

No. Monetary gain is involved since you receive pay to perform some service there. FCC rules forbid use of patch for monetary gain or loss use. Find a pay phone or find another way.

Can I call the grocery store, or Pizza place and place an order?

No. Again, because monetary gain or loss is involved.

Can I call the time number?

No. The # has a commercial announcement tied to it; therefore is commercial in nature. The repeater already has a time announcer on it. Just ID and dial 80 and you'll get the current time, within 1 minute accuracy. (set to WWV weekly)

Can I call someone and find out directions to their houses?

Yes. This would be a valid use of the autopatch; providing you do not discuss business of any kind.

Can I call home from Kenai, or from up in the valley?

Yes. With certain restrictions. Remember that Amateur Radio is not to be used to circumvent regular long distance carriers. If a phone is readily available, USE THE PHONE; but naturally if phone service is not provided in the "bush" location you are at, you may use the patch. BUT don't use patch on a continuous basis, where other types of commercial communications are available. What we're trying to get across is if you live somewhere out in the bush & are using 2 meters for normal daily communications to Anchorage, & conducting any kind of business. . this is not what Amateur Radio is set up for. If you can get into the 94 rpttr or the Eagle River Rptr, or either of the Valley Rptrs, or the Kenai rpttr, then you can get into commercial rpttrs supplying telephone service to those areas. The commercial carriers can, and will, complain to the FCC that they are losing business & we could be forced to turn off the autopatch. So, if you live in the bush, and want to use a radiotelephone for regular commercial use, buy a commercial radio telephone service. Ask one of the control operators for a recommendation.

Can I use the patch to call for a wrecker?

Yes. This comes under the provision of saving life or property. However, do not discuss the fees involved. You can give directions.

Can I call home & get a grocery list, or see if there's anything to pick up?

Yes, within reason. Don't mention a commercial name. And don't call to say you're just pulling into the driveway and will be inside in a couple of minutes.

What should I do if I get an answering machine?

This depends on what the message on the machine is. If it's commercial in nature, or contains any type of music, key and disconnect immediately! If not, you can leave a message if you so desire.

When should I use the 911 number?

USE THIS NUMBER ONLY IN LIFE THREATENING SITUATIONS!!

Use the 912 (APD) or 913 (AST) for general accidents, animals in the street, reckless drivers, or other general types of accidents.

Other emergency autodial numbers:

914 (SP's) - Elmendorf AFB Security Police

915 (MP's) - Fort Richardson Security Police

916 (GAS) - Enstar Gas Company
917 (FSS) - Anchorage Flight Service
918 (Lites) Anchorage Traffic Light Department

I hear people calling FSS for weather info. Isn't this commercial in nature?
No. This # is for our out of area pilots, & others that have a need to reach Flight Service. Several local pilots have used this # when inbound & had lost all aircraft communications. This could be life threatening, & is considered a proper use of FSS. Getting the weather so as to avoid flying into bad weather is also considered as preventing a life threatening situation. Naturally, if you have another way of calling Flight Service, you should use it first.

Can I call long distance on rptr. and bill it to my home #?

No. It's illegal to use amateur radio to circumvent regular service.

Can I use radio to call a number for a friend, & then let him talk?

Yes. But with some restrictions. Remember this is 3rd party traffic, and you are control operator. You must be present in the same room the entire time your friend is using your transmitter - and you must have informed him of what is - and is not - allowed. This also means that a friend cannot answer a call for you if you are out of the room. There is one exception. If you have been severely injured, your friend can call for help - but soon as you are able, a complete report must be filed with the local FCC office, listing all facts and names.

What if someone uses my equipment without my knowledge?

You are responsible. FCC requires your equipment must be secured in such a manner that unauthorized transmissions can't take place. You are totally responsible, so lock it up when not in use. This includes use by children out of school, before parents come home.

Why so many control operators on 94? Do other rptrs have control operators?

FCC requires a control operator(s). It insures correct operation of the rptr. station, & a quick way to turn off the system if a problem arises. We try to have enough operators to cover from 6:00 a.m. to midnight 7 days a week. Without operators on duty, we are required to turn off the autopatch, a situation we try to avoid. All rptrs have at least 1 control operator. They assure that the rptr is used in correct manner. If you feel they have come down on you needlessly, discuss it with them on the phone - not on the radio. It saves hard feelings for many not actually involved in the incident - & keeps us from having a bad name with those who listen on their scanners.

Why are some rptr autopatch's closed to public? I thought Amateur Radio frequencies are free to any properly licensed amateur?

While the freq. are open to any properly licensed operator, equip. & services cost money. Either a club has to provide these services for its members, or an individual has to pay out of their own pockets for the equip and telephone line(s). It's only fair that while they can not make a profit, they may charge enough to cover operating exp. Telep. lines are not cheap, & equip. requires continual maintenance. Someone or some group has to be willing to take care of the equipment & replacement parts do not just grow on trees, or under moose bushes.

If you have further ?'s related to the use of the rptrs, in the area, please contact any one of the control operators or trustees. Remember we all started out new at one time & any question is a valid one. If we don't have the information I'm sure we can find someone who will have the info for you.

HAMMING IT UP IN THE KITCHEN

...with NL7DF

I couldn't remember who made the New Mexico Style Popcorn at the Flea Mkt. & I was getting ready to put a "wanted" ad in this newsletter to find out when I received the following letter:

"Dear Bonnie: It appears that my New Mexico Style Popcorn made a bit of a hit at the Flea Market this past weekend. Mary, NL7DM, has asked that I submit the recipe for the newsletter. So be it.

NEW MEXICO STYLE POP CORN



- 1 Popcorn
- 1 Oil
- 1 Salt
- 1 Pepper
- 1 Arroyo Seco Especial
- 1 Paper Bag
- 1 Fire
- 1 Combine and Shake.



That's it folks!!!! Makes enough good popcorn to serve all that can eat it!"

73's Fred Toliver KL7HM

Harvey Rookus, NL7DK, offers this delicious dessert he got from his sister-in-law.

CHOCOLATE ECLAIR DESSERT

- 2 - 3oz pkgs French Vanilla Inst. Pudding.
- 3 C. milk
- Beat according to directions. Add
- 8 oz. Cool Whip.

Line bottom of 9 x 13" pan with 13-15 whole graham crackers. Pour 1/2 the pudding mix over the crackers. Add another layer of crackers, other 1/2 of pudding and a last layer of crackers.

- Melt: 3 T. margarine
- 3 T. milk
- 3 level T. cocoa
- 1 T. oil
- Add: 1 1/2 C. powdered sugar.
- 2 T. cornstarch
- A drop of vanilla

Beat til smooth. Spread over top layer. Chill thoroughly. Best if chilled overnight. (I tried it and it's great! - Editor.)

I'm riding special ed school buses this yr. as an aide. We had a cookout last Fri. at the "bus barn" - and a lady driver brought some beans cooked by her husband, Dana Collins. They were the best darned beans I ever ate, so I called him for the recipe. (I supplied the name for them!) Dana has been in the Air Force for 18 years; has been a licensed chef for 14 years & has cooked all over the world. He develops a lot of his own recipes, as in:

DANA'S BUS BARN BEANS

- Into a crock pot (slow cooker), fry: 1/4 # bacon & 2 chopped onions
- Drain grease off then add:
- 3 - #2 1/2 cans Pork & Beans
- 1 cup brown sugar
- 1 t. each salt, black pepper, MSG, & cayenne pepper.
- 2 T. each garlic powder, chili powder, Tabasco sauce, liquid smoke, & Worcestershire sauce
- 4 T. prepared mustard

Best cooked about 8 - 10 hours!

Makes a lot - but you need a lot because you can't quit eatin' 'em. If you think that looks like lots of spice. . it is! But they're GREAT!



FOR SALE...Hustler 6BTU Vertical \$100.00...Kenwood TS820 \$450Kenwood MC50 Mike \$40.00...New in Carton Hi Gain
TH6-TH7DX Conversion Kit w/ Stainless Steel Hardware \$175.00, Discount for taking all! Al Turner KL7GU 274-1246.

For Sale . . . Eagle River QTH, 1,800sf split level, 4 BR, 2 BA, Family room,
Heated garage, custom ham shack, tower, tri band ant., large
sunny lot on quiet cul-de-sac. \$128,000, flexible financing
or lease purchase. Terry KL7JGJ or Linda KL7BF 694-9575.

Don't let household current kill you

Not of people who wouldn't go within 50 feet of a high voltage power line fearlessly play around with 120 volt household current without giving a thought to whether or not it is dangerous. It is and it can give you a deadly shock.

About 1,000 people are electrocuted every year in the United States, and here is how some of those accidents happen.

- A do-it-yourselfer using a defective electric drill in the basement is electrocuted when he touches a metal laundry tub.

- A woman whose basement was flooded wades in the water to reach her freezer. She is electrocuted when she touches the lid of a shorted electric freezer.

- A child dies when he plugs one end of the iron cord into the wall socket and the other one in his mouth.

- Two children die when a radio falls into the bathtub where they are taking a bath.

Actually it is not the number of volts that causes the shock, but the amount of current (amperage) that enters the body, how long the shock lasts and the path which the current follows.

One milliampere passing through the skin causes a tingling sensation. Only 7-10mA can rob you of your muscular control so that you can't let go; 100mA can kill if the shock lasts for one second or longer.

Usually, the current passes through a hand and out of a foot, which may not be too bad. The real danger is when the current passes in one arm, through the chest area and out the other arm. When this occurs, the current can paralyze the

respiratory muscles, causing breathing to stop. Such paralysis may last even after the person is disconnected from the electrical source.

Also, the current can strike the heart, causing fibrillation and resulting in instant electrocution. The heart goes into unsynchronized fluttering, cutting off blood and oxygen circulation to body cells, including the brain.

Because of the way electricity works, low voltages, surprisingly can be more dangerous than high voltages. A heavier jolt can "clamp" the heart and prevent fibrillation. People have been known to recover from comparatively large jolts of electricity while a smaller amount, under certain conditions, can kill.

You can avoid electrical shock by using good electrical equipment, and by using common sense when you are using electricity.

—St. Charles ARC, MO

□

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